

FIGURE 1

100

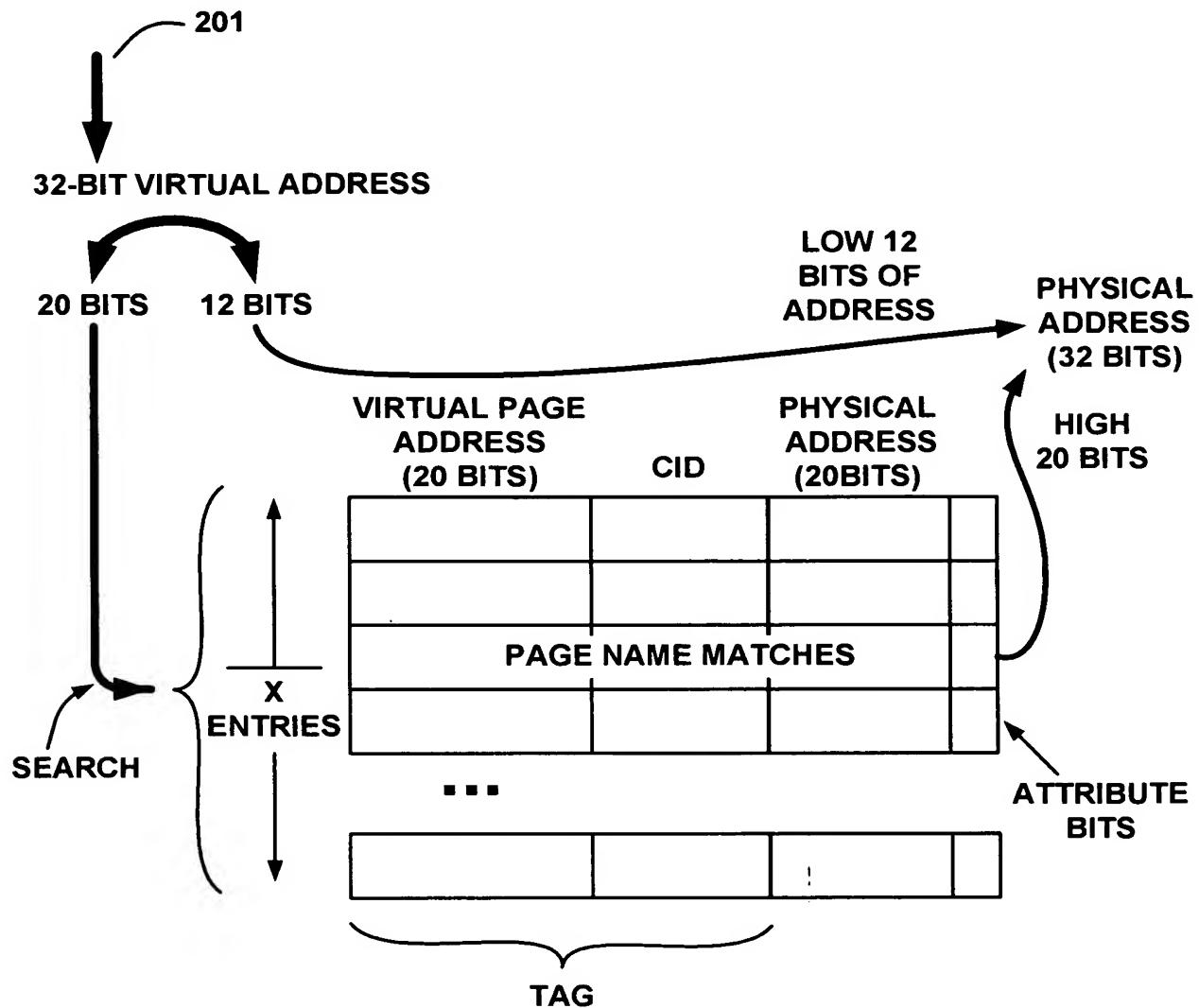


FIGURE 2

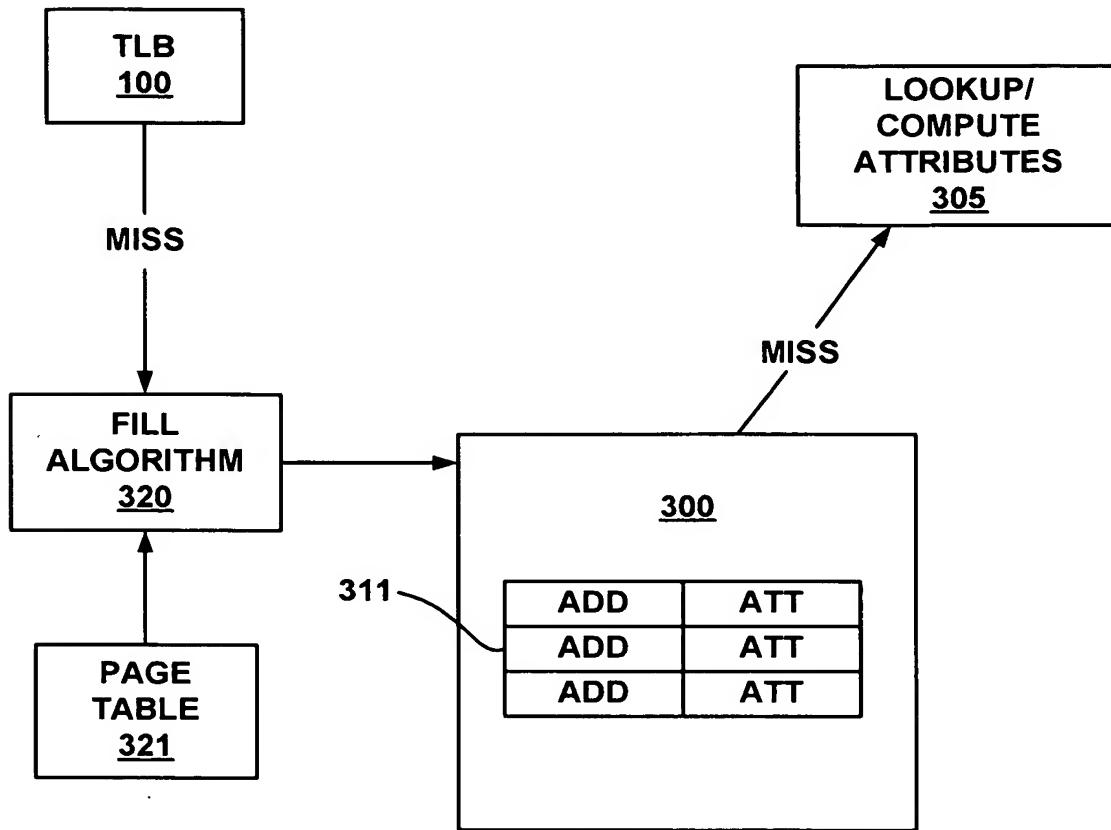


FIGURE 3

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400

UPON A TLB MISS, INVOKE A FILL
ALGORITHM TO OBTAIN A NEW
PHYSICAL ADDRESS CORRESPONDING
TO A VIRTUAL ADDRESS

401

ACCESS AN ATTRIBUTE CACHE TO
OBTAIN ONE OR MORE ATTRIBUTES
CORRESPONDING TO THE PHYSICAL
ADDRESS

402

MISS?

403

NO

YES

ACCESS LOGIC TO LOOK UP/
COMPUTE ATTRIBUTES FOR THE
PHYSICAL ADDRESS

404

STORE THE ATTRIBUTES AND THE
PHYSICAL ADDRESS WITHIN THE
ATTRIBUTE CACHE AND THE TLB

405

SPECULATE?

406

NO

YES

ACCESS LOGIC TO LOOKUP/COMPUTE
A PLURALITY OF ATTRIBUTES FOR A
PLURALITY OF SPECULATIVE PHYSICAL
ADDRESSES

407

CONTINUE

408

FIGURE 4

500

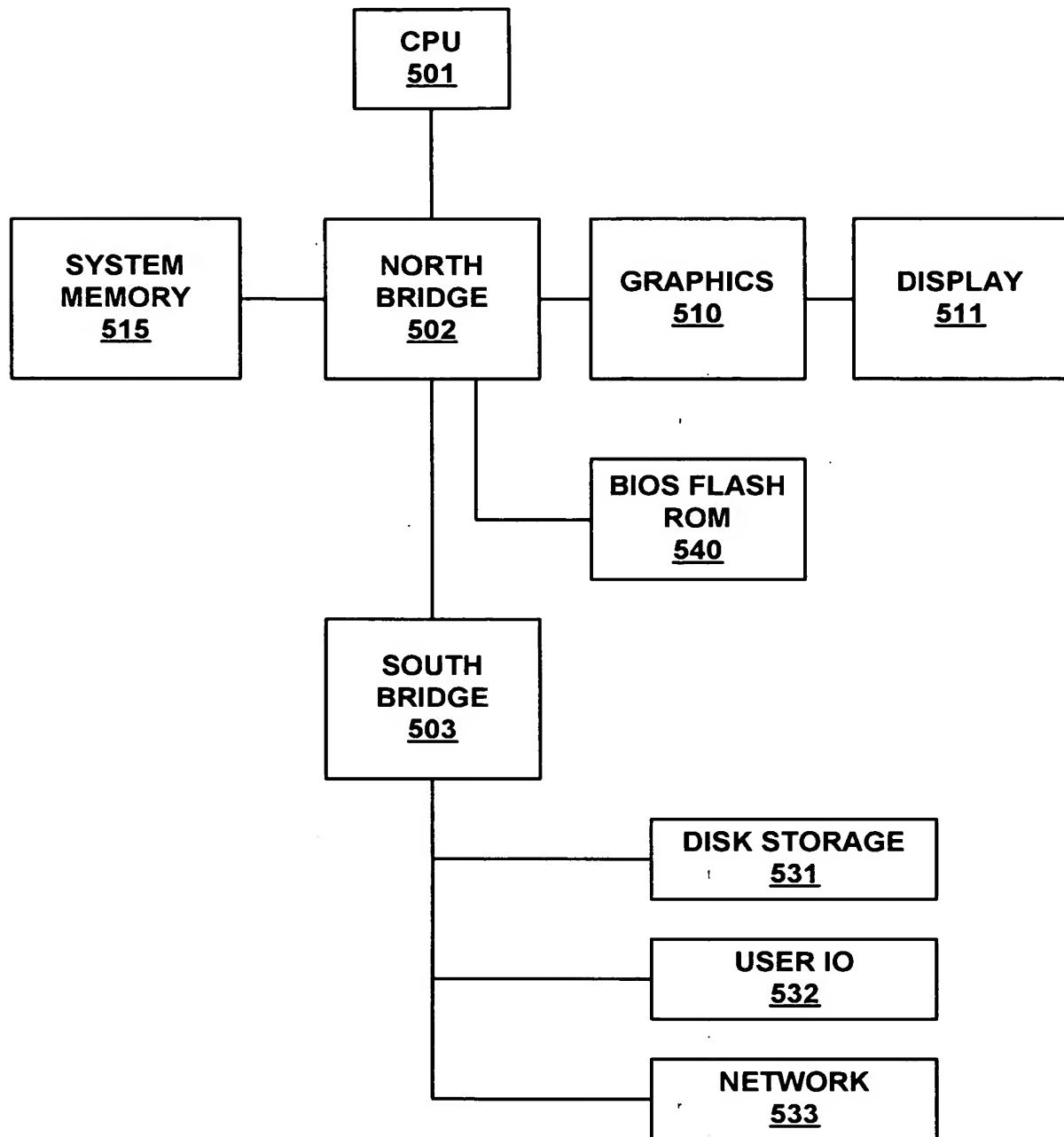


FIGURE 5

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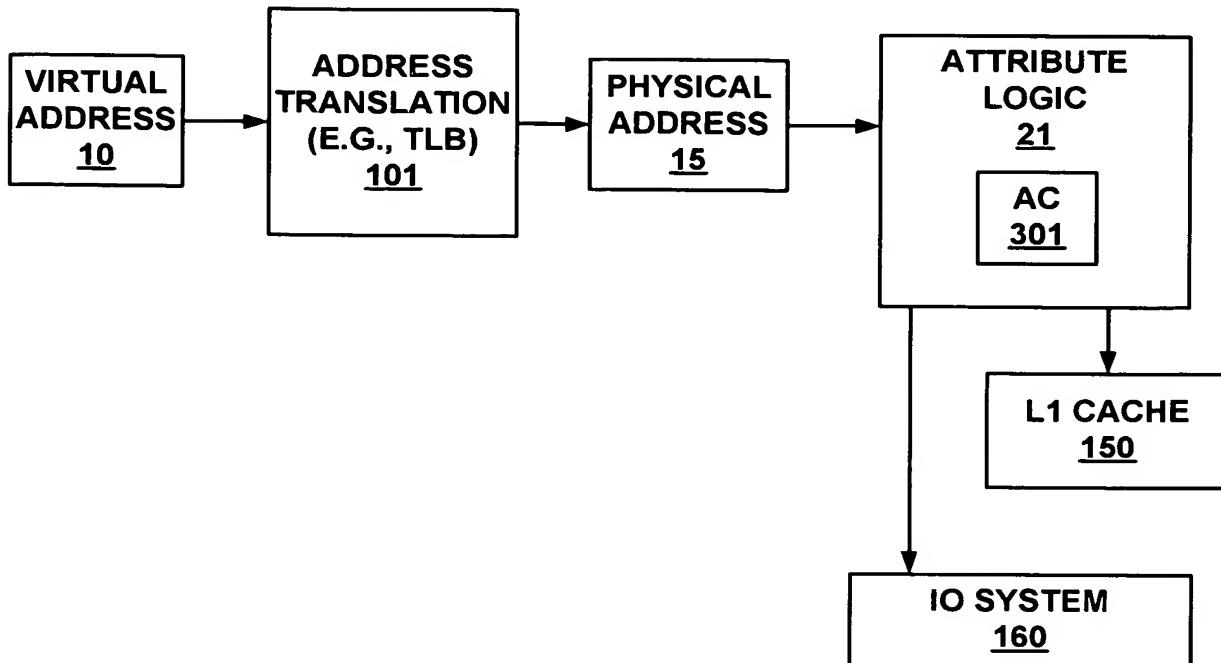


FIGURE 6

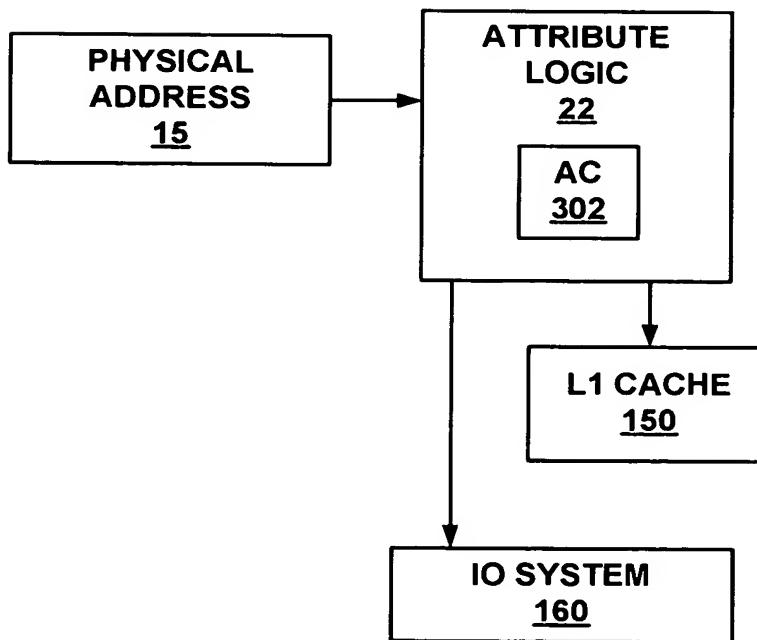


FIGURE 7